

CONTACTLESS DISCRIMINATION CODE READER WITH NOISE ELIMINATING FUNCTION

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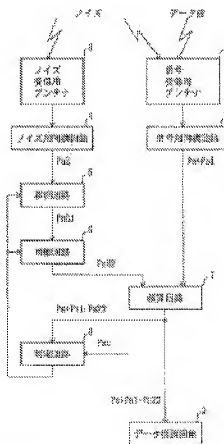
- European:

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Abstract of JP 8330988 (A)

PURPOSE: To provide the contactless discrimination code reader which has a function to eliminate the noise in the same frequency band as a steadily existing signal power. **CONSTITUTION:** An antenna 1 for signal reception and an antenna 3 for noise reception of the same specifications and a tuning circuit 2 for signal and a tuning circuit 4 for noise of the same specifications are used, and outputs of the tuning circuit 2 for signal and the tuning circuit 4 for noise are inputted to a subtraction circuit 7 through a phase shift circuit 5 and an amplification circuit 6, and the subtraction result is inputted to a discrimination circuit 8. It is compared with a preliminarily set reference value of the noise power which realizes demodulation without practical data error, and the comparison result is fed back to the phase shift circuit 5 and the amplification circuit 6. In the adjustment mode, a reference extent of phase shift and that of amplification are so determined that two noise powers inputted from the antenna 1 for signal reception and the antenna 3 for noise reception at the time of no signal have the same phase/amplitude; and in the operation mode, the phase and the amplitude are changed by these reference extents of phase shift and amplification to extract only the signal power from the signal power including the noise.



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